

YUNHO CHO

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

M.S. in Robotics

Aug 2025 – May 2027 (Expected)

B.S. in Mechanical Engineering w/ Minor in Psychology [GPA: 3.6/4.0]

Aug 2021 – May 2025

- Recipient of A. James Clark Scholarship (4-year full-ride w/ stipends)

EXPERIENCE

Qualcomm

San Diego, CA

XR Systems Engineering Intern

May 2026 – Current

- Capability evaluation and performance analysis of ultra-low power GPU inside XR (VR/AR) device SoCs

Tesla

Austin, TX

Computer Vision Intern

Jan 2026 – May 2026

- Performed manufacturing defect identification using classical computer vision algorithms and ML models
- Created semi-automated data annotation & augmentation pipeline for downstream CV model training/tuning
- Improved performance of ML inference/DB interaction backend by ~2000x (1.4 s → 0.8 ms per image)

Safe Robotics Laboratory

Atlanta, GA

Graduate Researcher

Apr 2024 – Present

- Trained large foundation models (e.g., VLMs, VLAs) with 3D perception for embodied navigation tasks
- Auto-generated [photorealistic 3D indoor scenes](#) for self-supervised large-scale navigation training
- Built [humanoid teleoperation client-server system](#) for Meta Quest headsets (Unity/C#) and MuJoCo simulator

Georgia Tech Research Institute (GTRI)

Atlanta, GA

Embedded Systems Intern (Joint mechanical engineering & software)

Jan 2024 – Aug 2024

- Built agentic AI workflows for fighter pilots to provide on-demand data visualization via voice interaction
- Performed hardware prototype fabrication, assembly, and documentation for classified DoD projects

SightWise

Atlanta, GA

Co-Founder

Apr 2023 – Dec 2023

- SightWise is an AI-based accessibility suite for the blind and visually impaired with human-centric UX
- Gained >1.5k users in first launched AI-based visual scene description service
- Fine-tuned large language models for visual description task and deployed to AWS EC2 w/ GPUs
- Used ONNX and Apache TVM to accelerate computer vision models for 5x speedup on Android & iOS

HEART Lab @ Asan Medical Center (서울아산병원)

Seoul, Korea

Assistive Technology Research Intern

May 2022 – Aug 2022

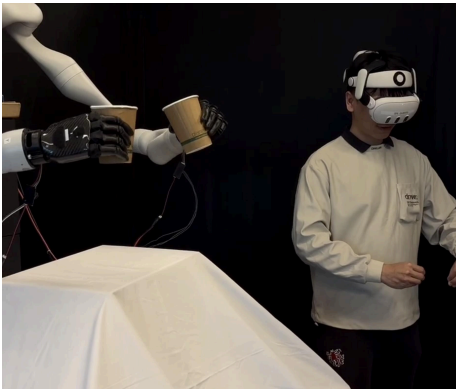
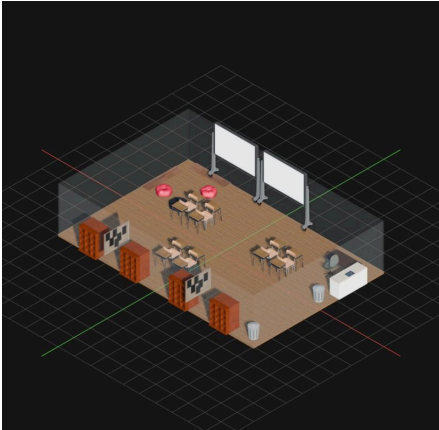
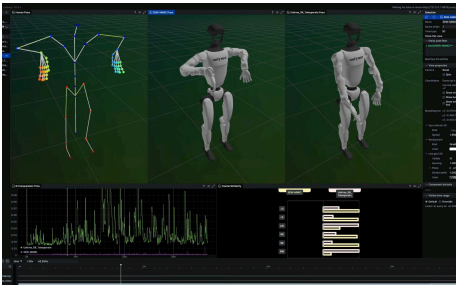
- Developed finger-worn visual-tactile sensory substitution device for human participants with blindness
- Implemented computer vision models (object detection, segmentation, multi-object tracking, edge detection, visual grounding & question answering) and optimized for real-time inference on edge devices

SKILLS

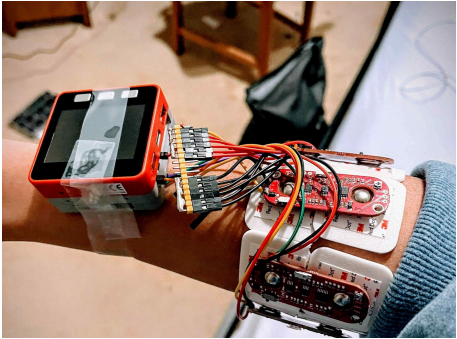
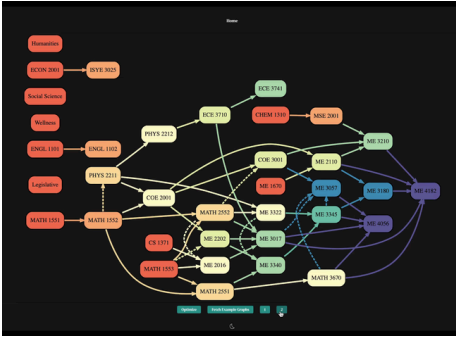
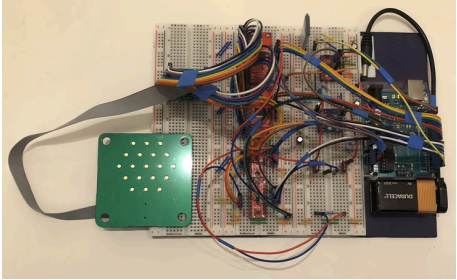
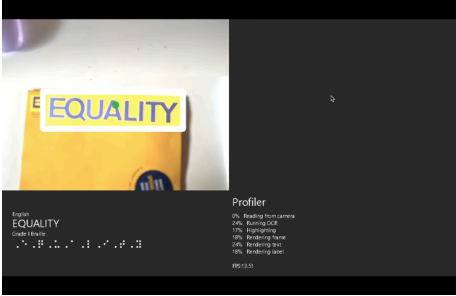
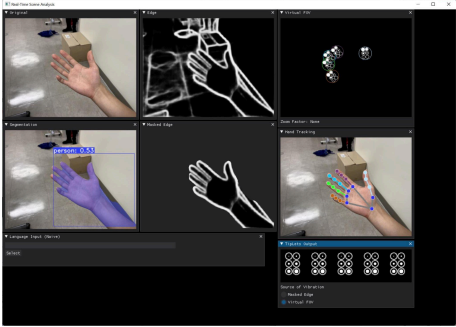
Stacks: Python, PyTorch, OpenCV, CUDA, Triton, JAX, ROS2, C/C++, JavaScript, SOLIDWORKS, KiCad, MATLAB, COMSOL

Concepts: Control Theory, Machine Learning, Foundation Models, Computer Vision, CAD, PCB Design

RESEARCH

Humanoid Teleoperation	Embodied Navigation	3D Scene Generation
	Coming Soon™	
XRT (VIDEO)		SceneBuilder
		
SEW-MIMIC (VIDEO)		

SIDE PROJECTS

Mechanical	Electronics	Software
		
Low Complexity Laser Cutter	PCB-EMG	Georgia Tech Curriculum Planner
		
	Skin Bioimpedance Ulcer Sensor	Live Braille
		
		Real-Time Visual Analysis
		